# BRUHAT BANGALORE MAHANAGARA PALIKE

## Dasarahalli Zone, Electrical Division

**Name of work :- Replacement of Burntout UG Cable,Panels boards and its accessories coming under Dasarahalli Zone Parks Ward 16,17,18,19,20,21**

Budget I P0298-M & R to Electrical Installations In Parks & Gardens, Playgrounds

Ward No.16,17,18,19,20,21 Estimate No.. 1000000.00

| Sl No | SR PAGE NO | Description Of Work | Unit | Qty | Rate | Amount |
|---|---|---|---|---|---|---|
| 1 | 11 8/1 1 8 1 | Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection Compatible for pole mounting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with ..... W System Power consumption LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 25 Watts | No | 26 | 2000.00 | 52000.00 |
| 2 | 4 2/4.2 1 | Fabricating, supplying and erection of ... ms long hot dip Galvanized Octagonal hot dip Pole with BSEN 10025 grade S355 JO steel plate for shaft, IS 2062 for base plate with dooropening arrangements, including suitable boards, Bakelitesheet and MCBs as per IS specifications suitable to withstandthe wind speed of 47 m/s for ..... m Pole in single section andsingle joint welded as per IS 9595/IS10178AWS havingdimensions bottom ..... mm , top.... mm with 3 mm thick,suitable base plate and 4Nos of ..... long J bolts along withtemplate and the Pole shall be hot dip galvanized in singledipping with not less than 65micron as per ASTM-A123 and 153etc , (excluding foundation) as per drawing appended 3 m - Top 70 mm and Bottom 130 mm dia | Each | 26 | 5671.00 | 147446.00 |
| 3 | 4.7/4.7 .1 | Supplying, and fixing of Hot dip Galvanized M S Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete Single Arm Bracket with 1000 mm Standard 40/50 mm dia | Each | 25 | 1544.00 | 38600.00 |

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|---|---|---|---|---|---|---|
| 4 | 37/11 9 7 | Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency> 1301m/w, nominal CRI >75 Luminaire manufacturer should have in- house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Floodlight 240W | Each | 6 | 19996.00 | 119976.00 |
| 5 | 45/13 5 | Fixing halogen/metal halide /SVL/IL/LED floodlight fitting over existing pole / wall ceiling including clA, bolts, nuts and wiring using suitable capacity wires | Each | 6 | 189.00 | 1134.00 |
| 6 | V-I No 1.4.1,P age No 5 PWD SR 2021-22 | Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work (V-I No 1.4.1,Page No-5 PWD SR 2021-22) Depth upto 3 m, | Cum | 11.65 | 73.00 | 850.45 |
| 7 | V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22) | Cum | 0.8424 | 6327.20 | 5330.03 |
| 8 | V-III, I.No 13.1 Page No 99, PWD | Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications (V-III, I.No 13.1 Page No 99, PWD SR 2021-22) | Kgs | 359.49 | 86.53 | 31106.37 |

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| | V-1,P No 17, I No 2 4 2 of PWD SR 2021-22 | Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0 50m to 3 50 m height The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requiroments of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P No 17, I No 2 4 2 of PWD SR 2021-22) | Cum | 4 90 | 8862 48 | 43408 43 |
| 10 | "14/21 4 | 7 Crane hiring charges for substation works 1. Up to 5 hours | Hours | 10 00 | 1500 00 | 15000 00 |
| 11 | BESC OM SR | Earth work excavation for cable trench of 0 4 to 0 5 Mtr Width and Depthupto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr,Supplying and Displaying necessary Danger Boards and Lighting, Using sightRails and Sign Boards at every 100 Mtr wherever necessary as directed | CMT | 130 | 260 00 | 33800 00 |
| 12 | 11/ b | COST DATA SHEET - 19For Laying of 1 KM Length of 11 kV, 3x95 Sqmm XLPE UG Cable Using Conventional Laying with Excavation of Soil b) Laying of cable in trench | KM | 0 80 | 45284 00 | 36227 20 |
| 13 | 3/2 3/2 3 2 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system ofwiring with specified IS-694 confirming to latest amendments. 1.5 mm2 | Mtr | 276 | 26 00 | 7176 00 |
| 14 | 3/2 3 5 | 6 mm2 | Mtr | 20 | 87 00 | 1740 00 |
| 15 | 15/5.4 2/5 42 2 | abricating supplying and mounting MS box made out SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7lanks treatment with powder coated paint and finally finishedwith approved colour etc , complete 16 SWG | cm 2 | 140000 | 0 38 | 53200 00 |
| 16 | 15/5.4 1/5041 1 | Supplying and fixing angle iron frame work fabricated out of M.S angle iron and M.S. Flat.....with bolts, washers etc., andpainted with 2 coats of red oxide and then two coats of approved paint 40 x 40 x 6 mm | Mtr | 15 | 275 00 | 4125 00 |
| 17 | 6/3 9 | Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N. F screws | cm 2 | 40000 | 0.26 | 10400 00 |
| 18 | 12/5.1 4 7 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, | Each | 4 | 8265 00 | 33060 00 |
| 19 | 13/5.1 7 9 | Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898 50-63 A TPN | Each | 5 | 2399 00 | 11995 00 |
| 20 | 16/5.4 8 | Supplying and fixing Microprocessor Based Astronomical timerSwitch with using necessary bolts, nuts and washers | Each | 4 | 4352 00 | 17408 00 |

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|---|---|---|---|---|---|---|
| | | Supply of LED floodlight luminaire with pressure die ... aluminium housing body for ... | | | | |
| 21 | 11/5.1 3.4 | Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts washers and wiring etc , complete with AC-3 Rating and as per IS-13947 100 to 125 A | Each | 4 | 9001.00 | 36004.00 |
| 22 | 9/32/3 2.05 | 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part 1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm) | KM | 0.75 | 183442.00 | 137581.50 |
| 23 | 9/32.0 8 | 25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm) | KM | 0.150 | 240813.00 | 36121.95 |
| | | **Total Rs** | | | | **8,73,689.93** |
| | | Add 18% GST(1 to 21) | | | **699986.48** | **125997.57** |
| | | Miscellaneious | | | | **312.50** |
| | | **Grand Total Rs** | | | | **10,00,000.00** |

**CERTIFICATE :-**

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) & Civil S.R.of 2021-22/ESCOM SR2021-22

Juniour/ Assistant Engineer (Ele)
Dasarahalli Zone

Assistant Executive Engineer (Ele)
Dasarahalli Zone

Executive Engineer (Ele)
Dasarahalli Zone, BBMP

ಸಂಖ್ಯೆ. ಬೃ.ಬೆಂ.ಮ.ಪಾ : ದಾ.ವ : ತಾಂತ್ರಿಕ : 02/ 2022 - 2023
ದಿನಾಂಕ: 03/01/2023.. ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.10,00,000/-
ಅಕ್ಷರಗಳಲ್ಲಿ ..ಹತ್ತು ಲಕ್ಷ ರೂಪಾಯಿಗೆ.....
ಗಳಿಗೆ ಮಾತ್ರ 2022 - 2023 ... ಅಂದಾಜು ಪಟ್ಟಿಯಂತೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಟಿ. ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು-57.

ನಂ:ಎಕ್ಸ್ ಕಾ.ಅ.(ಎ):ದಾ.ವ: 07 2022 2023
ದಿನಾಂಕ 03/01/2023: ರೂ. 10 ಲಕ್ಷ ... ಗಳಲ್ಲಿ
ಹತ್ತು ಲಕ್ಷಕ್ಕೆ ... ಗಳಿಗೆ
ಅಂದಾಜು ಮೊತ್ತ ಆವಶ್ಯಕತೆಗೆ ಮಂಜೂರಾತಿ ... ಯ್ಯಿ
ಮಟ್ಟಿ ಸಂಖ್ಯೆ 89 ಕ್ರಮ ಸಂ: 07
ಕಾರ್ಯಪಾಲಕ ... (ಎ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ... ಪಾಲಿಕೆ
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